## What is claimed is:

 An adhesive comprising a resin component, a metal chelate, and a silane coupling agent,

wherein said resin component comprises a thermosetting resin and said silane coupling agent comprises a silane compound represented by general formula (1):

$$X^2$$
 $X^1 - Si - X^3$ 
 $Y^4$ 
. - General formula (1)

wherein at least one of substituents  $X^1$  through  $X^4$  is an alkoxy group.

- The adhesive according to claim 1, wherein said alkowy group is a methoxy group.
- 3. The adhesive according to claim 1, wherein said alkoxy group is an ethoxy group.
- The adhesive according to claim 1, wherein at least one of the substituents X<sup>1</sup> through X<sup>2</sup> of said silane compound
   is a substituent other than an alkoxy group and at least one of said substituents other than the alkoxy group has an epoxy

- 5. The adhesive according to claim 1, wherein at least one of the substituents X¹ through X⁴ of said silane compound is a substituent other than an alkoxy group and at least one of said substituents other than the alkoxy group has an vinyl group.
- 6. The adhesive according to claim 4, wherein said substituent having the epoxy ring is a γ-glycidoxypropyl group represented by chemical formula (2):

$$CH_2 - CHCH_2 OC_3H_6 - \cdot \cdot Chemical formula (2)$$

7. The adhesive according to claim 5, wherein said substituent having the vinyl group is a  $\gamma$ -methacryloxypropyl group represented by chemical formula (3):

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- 8. The adhesive according to claim 1, wherein an amount of said metal chelate is from 0.1 parts by weight to 20 parts by weight with respect to 100 parts by weight of said resin component and an amount of said silane coupling agent is from 0.1 parts by weight to 35 parts by weight with respect to 100 parts by weight of said resin component.
- 9. The adhesive according to claim 1, wherein said resin component further includes a thermoplastic resin and an amount of said thermoplastic resin is 10 parts by weight or more with respect to 100 parts by weight of said thermosetting resin.
- 10. The adhesive according to claim 8, wherein said resin component further includes a thermoplastic resin and an amount of said thermoplastic resin is 10 parts by weight or more with respect to 100 parts by weight of said thermosetting resin.
- 11. The adhesive according to claim 1, wherein said thermosetting resin is an epoxy resin.
- 12. The adhesive according to claim 11, wherein the epoxy resin is an alicyclic epoxy resin.
- The adhesive according to claim 1, wherein said metal
   chelate comprises an aluminum chelate as a major constituent.

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- 14. The adhesive according to claim 8; wherein said metal chelate comprises an aluminum chelate as a major constituent.
- 15. An adhesive film obtainable by forming an adhesive into a sheet, the adhesive comprising a resin component, a metal chelate, and a silane coupling agent,

wherein said resin component includes a thermosetting resin, and said silane coupling agent is composed of a silane compound represented by general formula (1):

wherein at least one of substituents  $X^{k}$  through  $X^{k}$  is an alkoxy group.

16. An electric device comprising a semiconductor chip and a substrate, wherein an adhesive is disposed between said semiconductor chip and said substrate and is cured by heating, the adhesive comprising a resin component, a metal chelate, and a silane coupling agent,

wherein said resin component comprises a thermosetting

resin and said silane coupling agent comprises a silane compound represented by general formula (1):

$$\begin{array}{ccc} & \chi^2 \\ \downarrow & & \downarrow \\ \chi^1 - S \, i - \chi^3 & & \dots & \text{General formula (1)} \\ \downarrow & & & \chi^4 & & \end{array}$$

- 5 wherein at least one of substituents X<sup>1</sup> through X<sup>4</sup> is an alkoxy group.
  - 17. An electric device comprising a glass substrate and a substrate, wherein an adhesive is disposed between said glass substrate and said substrate and is cured by heating, the adhesive comprising a resin component, a metal chelate, and a silane coupling agent,

wherein said resin component comprises a thermosetting resin and said silane coupling agent comprises a silane compound represented by general formula (1):

$$X^2$$
 $X^1 - Si - X^3$ 
 $Si - X^3$ 
 $X^4$ 
- General formula (1)

wherein at least one of substituents X1 through X4 is an alkoxy

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- 18. The adhesive according to claim 1, wherein the metal chelate is microcapsulated.
  - 19. The adhesive according to claim 18, wherein the metal chelate is a powder or liquid.
- 20. The adhesive according to claim 18, wherein

  microcapsules are formed as absorbent resin particles and
  dispersed in the adhesive.